

Notice of Allowability	Application No.	Applicant(s)	
	10/657,947	LAI, RAY Y.	
	Examiner	Art Unit	
	Brian J. Gillis	2441	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Examiner's Amendment attached and the interview of November 10, 2009.
2. ☒ The allowed claim(s) is/are 1-26 and 28-74.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>11102009</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/Larry Donaghue/
 Primary Examiner, Art Unit 2454

DETAILED ACTION

This action is responsive to the Amendment after Non-Final filed June 30, 2009 and the interview on November 10, 2009. Claims 1-74 were pending. *Claims 1-26 and 28-74 are allowed.*

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Kowert on November 10, 2009.

The application has been amended as follows:

In the Claims:

26. (Currently amended) A system for designing and implementing Web Services comprising heterogeneous components, the system comprising:

means for applying a Web Services structured methodology and one or more design patterns to a Web Service architecture to identify heterogeneous components for the Web Service architecture and to organize the heterogeneous components according to the Web Service architecture, wherein said means for applying a Web Services structured methodology and one or more design patterns to a Web Service architecture comprises:

means for identifying one or more logical components for the Web Service architecture according to one or more use case requirements for the Web Service;

means for translating the one or more use case requirements for the Web Service and one or more technical constraints for the Web Service to determine a plurality of heterogeneous Web Service components for the Web Service architecture, wherein the Web Service components include software components;

means for categorizing the Web Service components into two or more related groups according to a vendor-independent Web Service architecture framework;

means for organizing the groups of Web Service components in the Web Service architecture according to two or more tiers and two or more platform layers of the Web Service architecture;

means for modifying one or more of the software components according to one or more architecture principles for each of the two or more tiers and the two or more platform layers;

means for applying one or more Web Services design patterns to the Web Service architecture; and

means for providing output indicating the Web Service architecture for implementing the Web Service; and

means for implementing a Web Service comprising the identified heterogeneous components organized according to the Web Service architecture.

27. (Canceled)

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach neither singly nor in combination, the claimed limitations of "identify one or more logical components for the Web Service architecture according to one or more use case requirements for the specific Web Service; organize the groups of Web service components in the Web Service architecture according to two or more tiers and two or more platform layers of the Web Service architecture; and provide output indicating the generated Web Service architecture for implementing the specific Web Service" as stated in claim 1, and similarly stated in claims 26, 31, and 53. These limitations, in conjunction with other limitations in the independent claim, are not specifically disclosed or remotely suggested in the prior art of record. A review of claims 1-26 and 28-74 indicated claims 1-26 and 28-74 are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Gillis whose telephone number is (571)272-7952. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing F. Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian J Gillis
Examiner
Art Unit 2441

/B. J. G./
Examiner, Art Unit 2441
11/12/2009
/Larry Donaghue/
Primary Examiner, Art Unit 2454